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Fig. 1

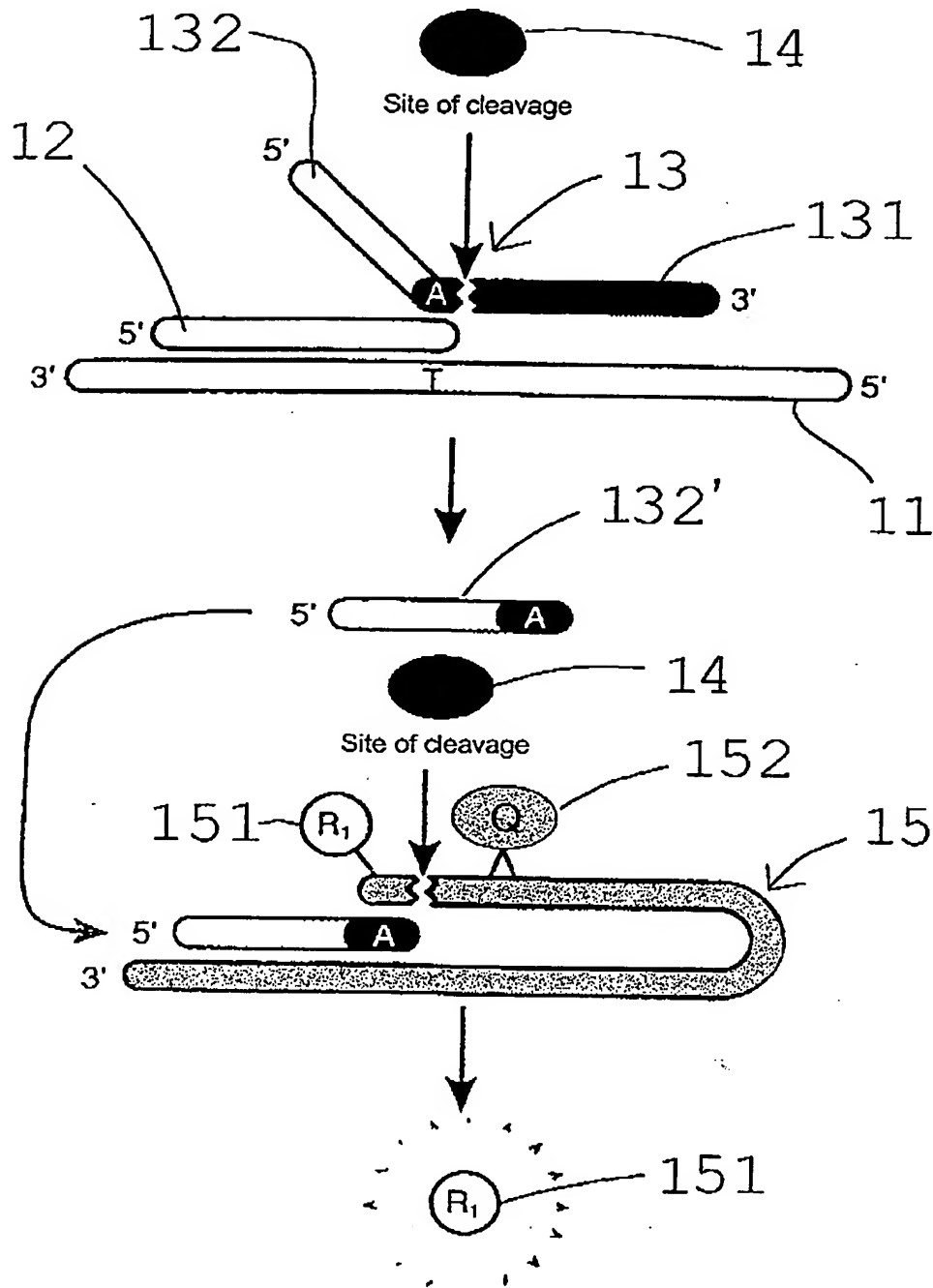


Fig. 2

Wild type

950 940 930

3'--AAGACCAACAACACGAGAGTACTAAGTGA-5'

GluProThrGlnAlaArgLeuSerGluSer

Mutant type

315 313 310

GluProThrGlnAlaGlyLeuSerGluSer

3'--AAGACCAACAACACGAGGGTACTAAGTGA-5'

3'--TTCTGGTGTTTGTGCTCCCAATGATTCACT-5'

950 940 930

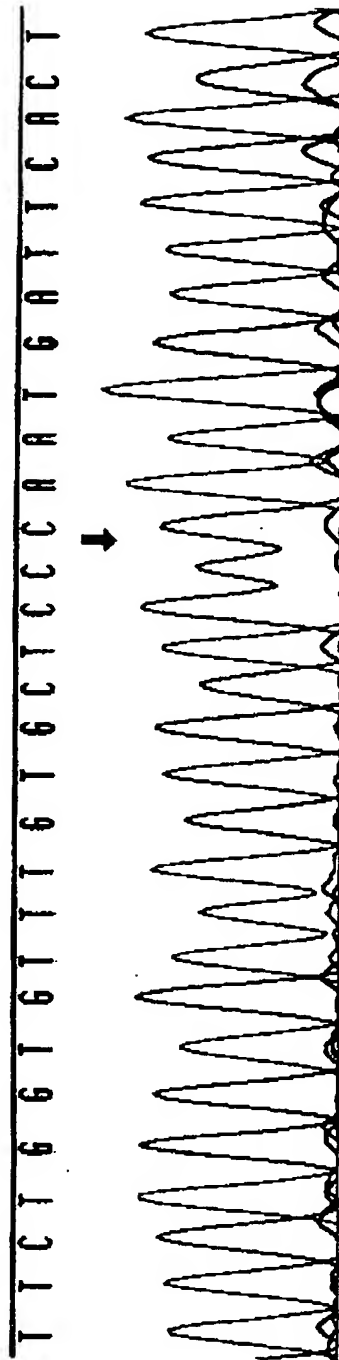


Fig. 3

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Wild type 1818 1810 1800
3' -AAGTGGTCGTCGACAGTCT-5'
 GluGlyAlaAlaThrLeu

 604 601
 GluGlyValAlaThrLeu

Mutant type 3' -AAGTGGTTGTCGACAGTCT-5'
 3' -TTCACCAACAGCTGTCAGA-5'
 1818 1810 1800

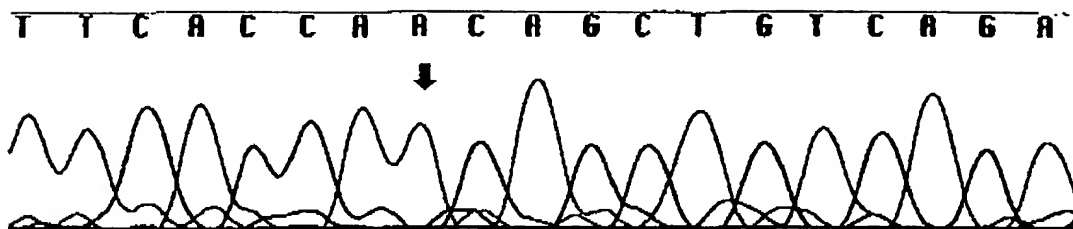
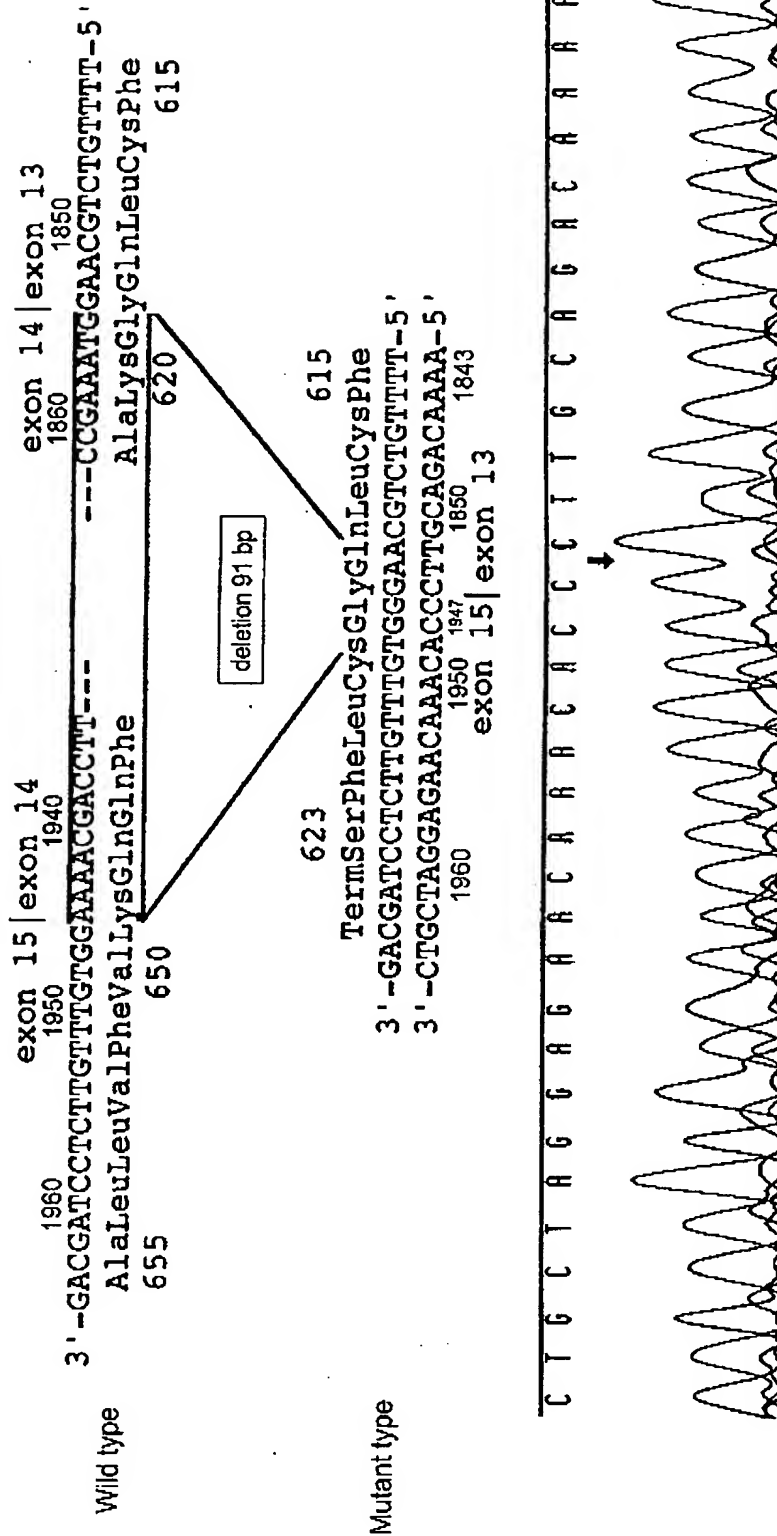


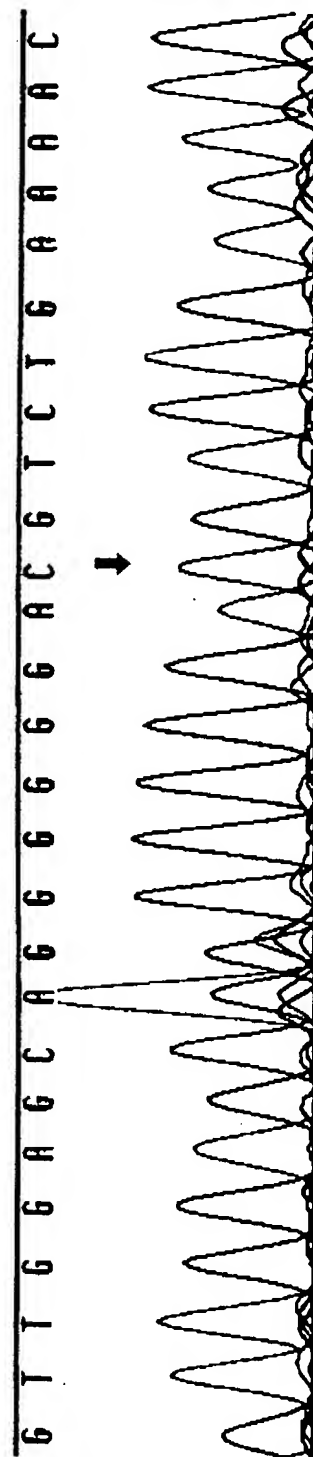
Fig. 4



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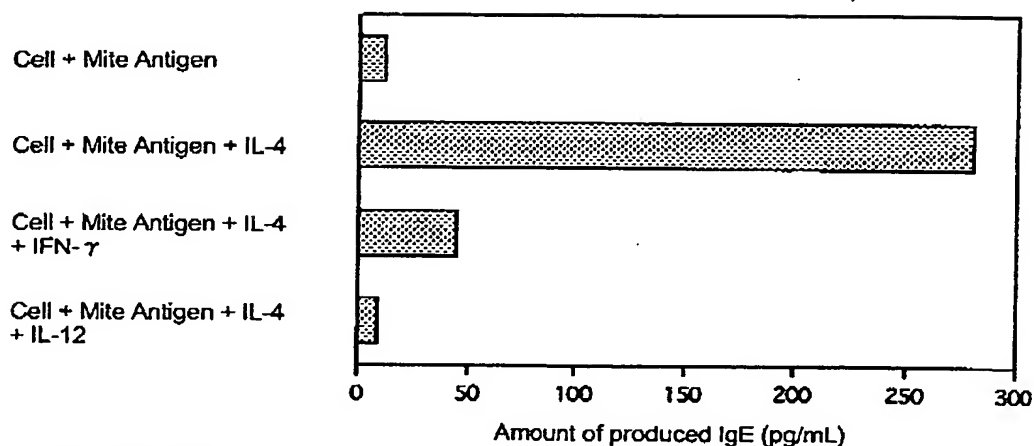
Fig. 5

	2170	2160	2150
Wild type	3' -CAACCTCGTCCCCCTACAGACTTTTG-5'		
	AsnSerCysProProHisArgPheVal		
	725	720	717
	AsnSerCysProProArgArgPheVal		
Mutant type	3' -CAACCTCGTCCCCCTGCAGACTTTTG-5'		
	3' -GTTGAGCAGGGGGACGCTCTGAAAC-5'		
	2170	2160	2150

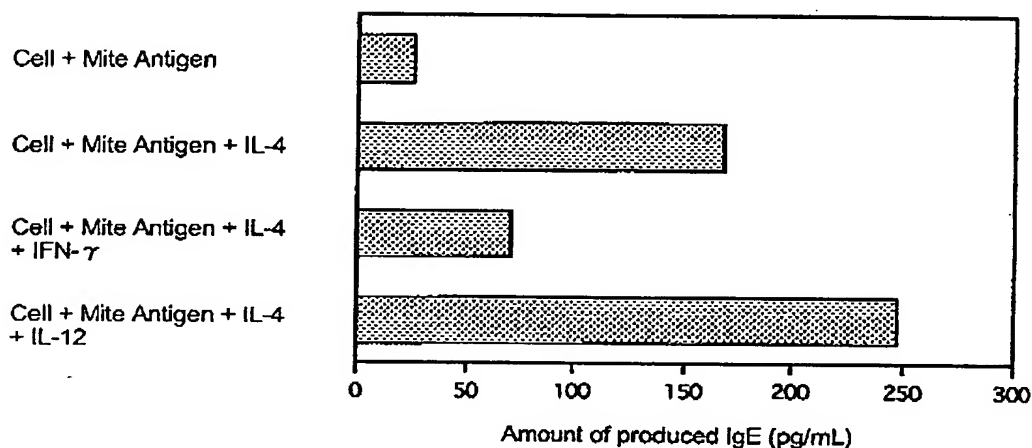


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a) Non-allergic subjects



b) Allergic subjects of 1856de191



c) Allergic subjects of A604V

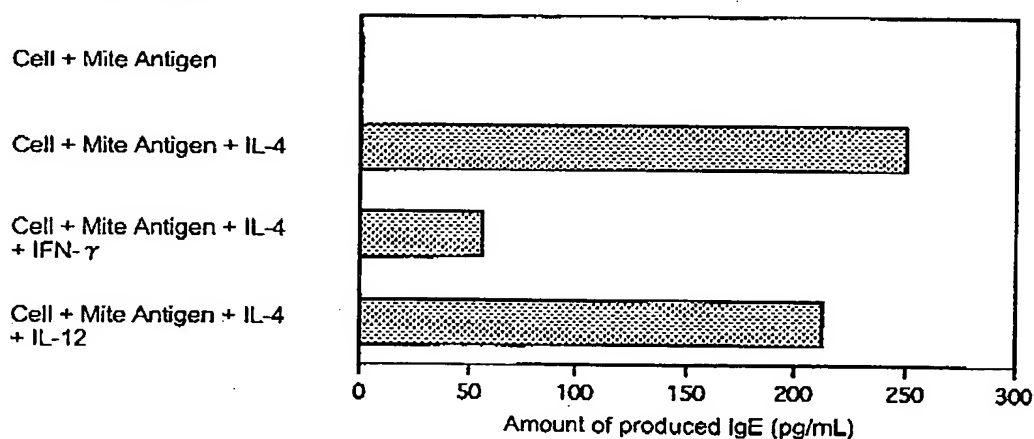
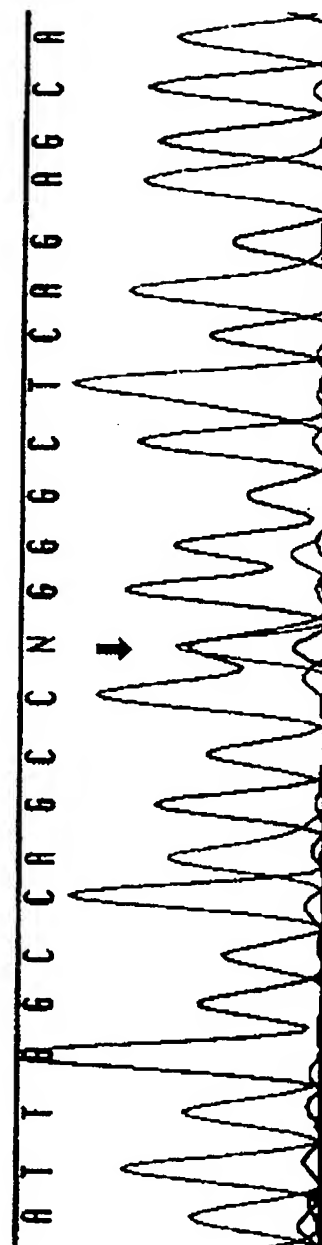


Fig. 7

358 360 364
 TrpProAla^{Arg}AlaGlnSer
 ^{Trp}
 C
 5'--ATTGGCCAGCC/GGGCTCAGAGCA-3'
 T
 1070 1080 1090

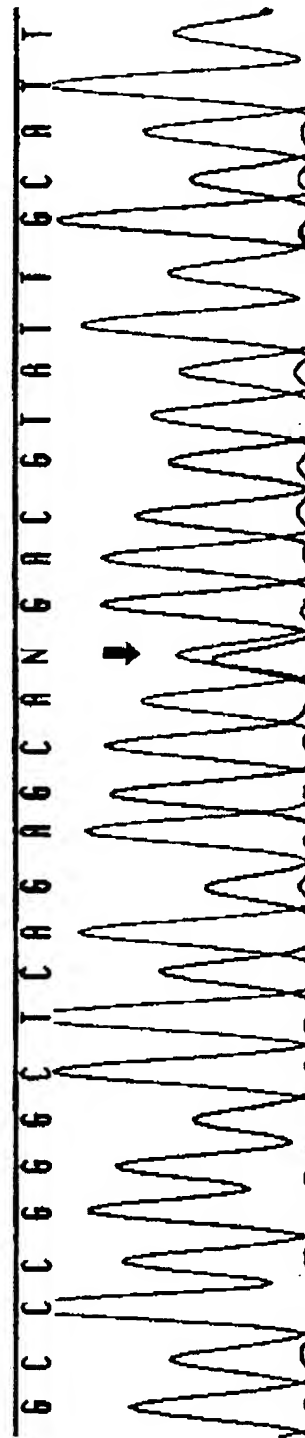


三

5' --GCCCGGGCTCAGAGCA/GACGTATTGCATT--3'

U

1080 1090 1100



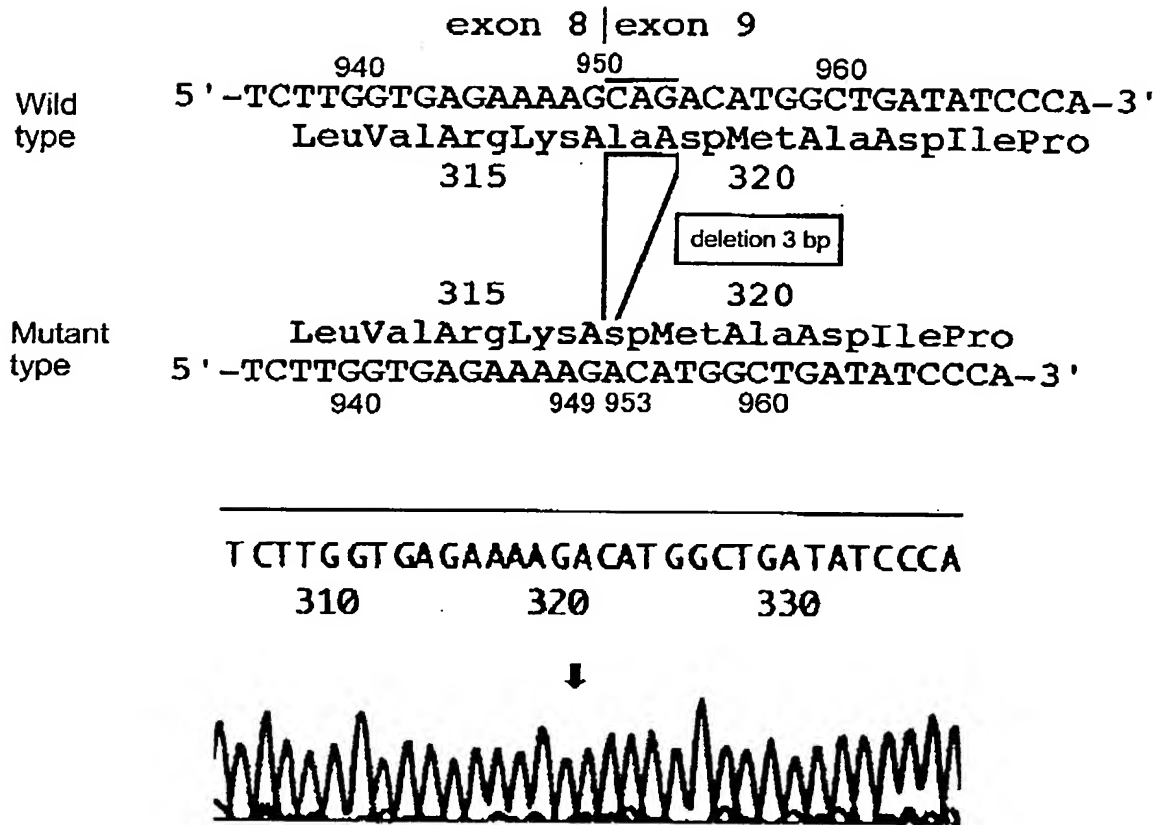
[illegible]

375	378	380	
ProValGlyGlnAsp	Gly	GlyLeuAlaThrCys	
	Arg		
	G		
5' - CCTGTGGCCAGGAC / GGGGCCTTGCCACCTGC - 3'	C		
1120	1130	1140	



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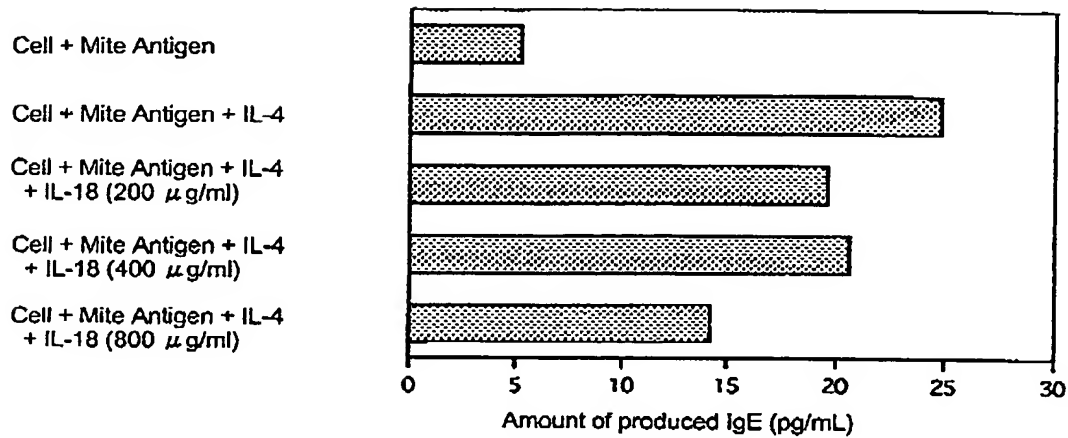
Fig. 10



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Fig. 11

a) Non-allergic subjects



b) Allergic subjects of 950de13

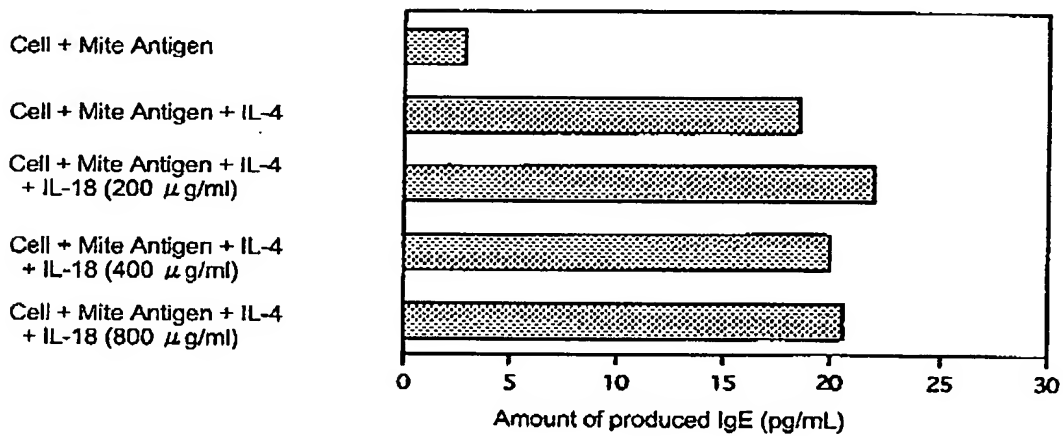


Fig. 12

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	1390	1400	1410
Wild type	5' -CTAGTGGATCTACTTGTGGATGATAGCGGT-3'		
	LeuValAspLeuLeuValAspAspSerGly		
	465	467	470
	LeuValAspLeuProValAspAspSerGly		
Mutant type	5' -CTAGTGGATCTACCTGTGGATGATAGCGGT-3'		
	1390	1400	1410

TA GTGGATCTACCTGTGGATGATAGCGGT

540 550 560



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Fig. 13

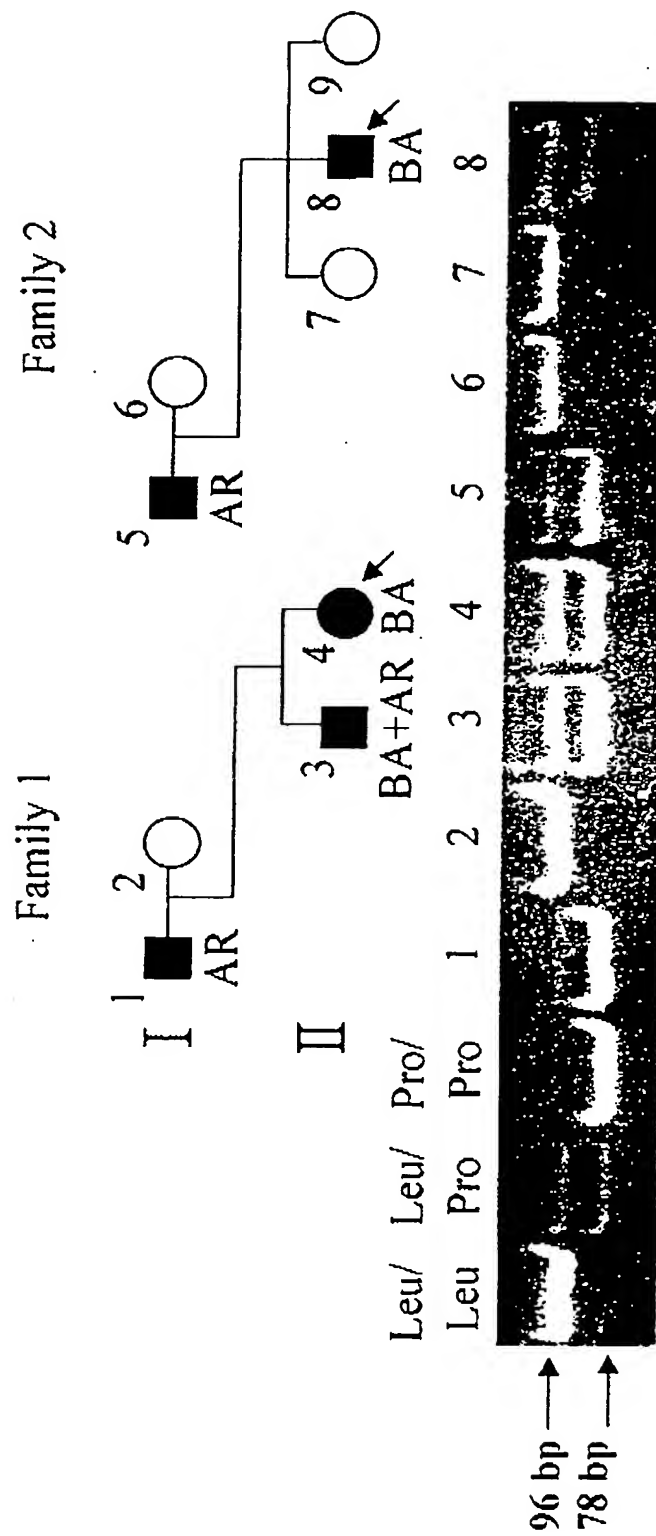


Fig. 14

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3660      3670      3680      3690      3700      3710
gtgccacca tgccatctgt gactatatct ttttattctt taatagtaac tcccttttct
                                     ↑
                                     A : 3696G/A

3720      3730      3740      3750      3760      3770
aatataaggc aacaacacaa acttaaaaa gagatgcccc ccaagcgtc attggcatgc
                                     ↑
                                     C : 3757C/T

3780      3790      3800      3810      3820      3830
tgatgttggc accagtgttg ggaagccctt agcatactcc aggaagtagg agtgtgtaac

3840      3850      3860      3870      3880      3890
gtggggtccc ttgttccttc atgcaagggt ttcaagagtt tagaaaacct atgaaattgc

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Fig. 15

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12310      12320      12330      12340      12350      12360
caacagttga ggccttaoct gccttactgg ctacaatcac taggaactct ctccccaatg
                                     ↑
                                     G : 12359T/G

12370      12380      12390      12400      12410      12420
tgtaacacag gctaatttct gtotttgact tcagctcttc tgacccccaa ggggtgacgt
                                     ↑
                                     exon 5
```

Fig. 16

16030 16040 16050 16060 16070 16080
 atgcattgca gaaacaggct cagcttacc cgtgactatg ttgcccaagggt gtcttcacag

↑

T :16078C/T

16090 16100 16110 16120 16130 16140
 ctttccttct cttttgcaga aagatagagt cttcacggac aagacctcag ccacgggtcat

↑
 exon 7

16150 16160 16170 16180 16190 16200
 ctgccgcaaa aatgccagca ttacgtgcg ggcccaggac cgctactata gctcatcttg